

WHAT IS CLAIMED IS:

1. A system for bidding for a process execution over a heterogeneous network, said system comprising a network server adapted to receive a payload over the heterogeneous
5 network from a network client, wherein the payload comprises specifications for a process execution associated with a task, wherein the server is further adapted to simulate the process execution, and provide a bid solicitation for the process execution from a network host.
- 10 2. The system as recited in claim 1, wherein the system further comprises a financial resolution center.
3. The system as recited in claim 1, wherein the heterogeneous network comprises a network of computational devices.
- 15 4. The system as recited in claim 1, wherein the heterogeneous network is absent information sent thereacross for maintaining secure access thereto.
5. The system as recited in claim 3, wherein the network of computational devices
20 comprises a network of multiple platforms.
6. The system as recited in claim 1, wherein the payload is encrypted.
7. The system as recited in claim 1, wherein the bid solicitation is encrypted.
- 25 8. The system as recited in claim 1, wherein providing a bid solicitation comprises providing a process simulation data set.
9. The system as recited in claim 2, wherein the network server is further adapted to
30 receive a bid for the process execution.

10. The system as recited in claim 9, wherein the network server is further adapted to validate the bid with the financial resolution center.

5 11. The system as recited in claim 10, wherein the network server is further adapted to evaluate the bids.

12. The system as recited in claim 11, wherein evaluating the bids comprises mediating negotiations between the network host and the network client, wherein the
10 negotiations relate to the process execution.

13. The system as recited in claim 12, wherein the network server is further adapted to maintain confidentiality as to the identity of the network client and the network host.

15 14. A method for soliciting a bid for a process execution associated with a task, said method comprising:

receiving a payload on a server, wherein the payload comprises specifications for
a process execution associated with a task;

20 simulating the process execution from the payload; and

providing a bid solicitation for the process execution.

25 15. The method as recited in claim 14, wherein simulating the process comprises executing a portion of the process.

16. The method as recited in claim 14, wherein providing a bid solicitation comprises providing a process simulation data set, and wherein the process simulation data set
30 provides information associated with the process execution related to the task.

17. The method as recited in claim 14, wherein the payload is received from a network client.

5 18. The method as recited in claim 14, wherein the payload further comprises:

a security permission dataset related to the identity of the task and the identity of the network client requesting process execution associated with the task;

10 and a financial data set related to the budget of the task.

19. The method as recited in claim 18, further comprising validating the payload with a financial resolution center, wherein the financial resolution center is adapted to authenticate the financial data set.

15 20. The method as recited in claim 14, further comprising receiving a bid from a network host.

20 21. The method as recited in claim 20, wherein the bid comprises:

a bid data set relating to the compensation requested in exchange for the process execution;

25 a host identity data set relating to the identity of the host providing the bid; and

a capability data set, wherein the capability data set includes a capability index indicating the host's process execution history.

30 22. The method as recited in claim 21, further comprising validating the bid with a financial resolution center.

23. The method as recited in claim 14, wherein the payload is encrypted.
24. The method as recited in claim 20, wherein the bid is encrypted.
- 5 25. The method as recited in claim 17, wherein the server is unknown to the client.
26. The method as recited in claim 17, wherein the client is unknown to the server.
- 10 27. The method as recited in claim 20, wherein the host is unknown to the server.
28. The method as recited in claim 20, wherein the server is unknown to the host.
29. A computer-usable carrier medium, comprising:
- 15 first programming instructions executable on a computational device for receiving
a payload wherein the payload comprises specifications for a process to be
executed; and
- 20 second programming instructions executable on the computational device for
simulating the process specified by the payload to quantify a bid amount
for the process before execution of the process.
30. The carrier medium as recited in claim 29, further comprising third programming
25 instructions executable on the computational device for providing a bid solicitation for
the process execution.